



Contents

Volume 189

The refurbishing of used salt water reverse osmosis composite membranes O. Weizman, E. Peri, L. Masturov, O. Chertkoff, I. Sutzkover-Gutman, A. Hermoni, D. Lewitus (Israel)	1
Recovery of cooling tower blowdown water through reverse osmosis (RO): review of water parameters affecting membrane fouling and pretreatment schemes J. Ahmed, Y. Jamal, M. Shujaatullah (Pakistan)	9
Experimental evaluation of multistage direct contact membrane distillation system for water desalination A.E. Khalifa (Saudi Arabia), A. Abdalmonem (Kuwait)	18
Performance of MBR in treating tomato paste processing wastewater: a comparison of aerobic granules with activated sludge Hui Zhou, Kuizu Su, Tong Shu, Tianwei Hao, Weihong Wang, Wei Wang, Li Liu (China)	30
Management of sewage sludge ash (SSA) in the cultivation of <i>Miscanthus giganteus</i> A. Głowacka, J. Kiper (Poland)	38
Influence of organic flocculants on the flocculation performance of aerobic sludge Xingqin Fu, Tingting Chen, Yuejun Zhang, Ying Hou, Xuepeng Zhong, Bin Huang (China)	45
Advanced treatment of sewage plant effluent by horizontal subsurface flow constructed wetlands: effect of coupling with cellulosic carbon sources Zhengkai Tao, Zhaoqian Jing, Mengni Tao, Hui Luo, Yin Wang (China)	53
Evaluation of simultaneous organic matter and nitrogen removal in a novel anaerobic/anoxic/oxic membrane bioreactor system for treatment of synthetic paper-recycling wastewater A. Izadi, M. Hosseini, G. Najafpour Darzi, G. Nabi Bidhendi, F. Pajoum Shariati (Iran)	66
Technical analysis of increasing the concentration ratio and sewage reuse of circulating cooling water in power plants Shuangchen Ma, Lan Ma, Chang Liu, Yao Sun, Haoruo Xing (China)	74
Techno-economic comparison of pilot-scale EDI and BWRO for brackish water desalination A.N. Hakim, K. Khoiruddin, A.K. Wardani, D. Ariono, I.G. Wenten (Indonesia)	89
Static mixer continuous chemical coagulation–flocculation for cattle feedlot wastewater treatment S.N. Fleite, A.R. García, C.N. De los Santos, A.F. de Iorio, M. Cassanello (Argentina)	98
Efficient calibration methodology of the wastewater treatment plant model based on ASM3 and application to municipal wastewater M. Simon-Várhelyi, V.-M. Cristea, M.A. Brehar (Romania)	108
Modification of polyvinylidene fluoride membrane by blending with cationic polyionic liquid Linbin Zhang, Shusu Shen, Yiyuan Zhang, Xiaoji Zhou, Renbi Bai (China)	119
Experimental study on the effect of solenoid coil winding pipe material on electromagnetic anti-fouling effect Bingcheng Liu, Ning Liu, Xiangyang Han, Hongsong Li, Wenguang Jia (China)	126
Hydrogeochemical characteristics of the groundwater in the quaternary aquifer of western fringes of El-Minia Governorate, Egypt using an integration of geochemical modeling and geo-statistical techniques E. Ismail, R. Zaki (Egypt), N. Rapantova, M. Licbinska (Czech Republic), H. Sharawi (Egypt)	134
Characterization of stabilized leachate and evaluation of LPI from sanitary landfill in Penang, Malaysia A.M.H. Shadi, M.A. Kamaruddin, N.M. Niza, M.I. Emmanuela, M.A. Shaah, M.S. Yusoff, F.A. Allafi (Malaysia)	152
Facile fabrication of multifunctional superoleophobic and antifouling metal mesh by dip-coating polyanion for efficient oil/water mixtures as well as emulsions separation Chao Yang, Jun Yang, Ge Song, Limin Zang (China), Qifan Liu, Jianhui Qiu (Japan), Xue Yang, Chun Wang (China)	165

Effects on water quality after water transfer in the Yinxi Watershed, Ningbo, China Hong Zhou, Jun Liu, Ningxia Pan, Zhi Zhang, Cheng Gao, Ruiling Bao, Xuesong Wang, Yawen Wu, Weilin Luo, Jian Xu, Yantan Zhou (China)	179
Study on users' recognition of and behavior toward water reuse Intae Shim, Yonghwa Park, T.G.H. Warsokusumo, Hyunju Park (Korea)	190
Occurrence, distribution, and risk assessment of PPCPs in water and sediments of Longgang river in Shenzhen City, south China Yahong Yang, Min Hu, Wanmeng Lu, Lixia Xue, Xiufeng Lin, Enlu Liu (China)	196
A multi-factor data-driven prediction model for cyanobacteria blooms in lakes and reservoirs Lei Zheng, Bo Hu, Aizhong Ding (China)	207
Effect and applicability of different phosphates on inhibiting iron release in water distribution system Yulong Yang, Hanqing Tang, Zhicheng Pang, Tuqiao Zhang, Kejia Zhang, Cong Li (China)	217
Highly porous iron-zirconium binary oxide for efficient removal of Congo Red from water J. Mohanta, B. Dey, S. Dey (India)	227
Application of synthesized Mn_3O_4 nanoparticle in Mn_3O_4/H_2O_2 and $Mn_3O_4/H_3K_5O_{18}S_4$ processes for polyvinyl alcohol (PVA) removal from aqueous solution R. Shokoohi, M. Taghi Samadi, G. Asgari, K. Godini, Z. Torkshavand, M. Vanaei Tabar (Iran)	243
Influence of salts and humic acid on 2,4-dichlorophenoxyacetic acid removing from aqueous solution by peanut shell activated carbon J.K. Fatombi, I. Agani (Benin), S.A. Osseni (Benin, France), E.A. Idohou (Benin), D. Neumeyer, M. Verelst, R. Mauricot (France), T. Aminou (Benin)	250
Synthesis and characterization of recyclable O-carboxymethyl chitosan Schiff base for the effective removal of Cd(II) from aqueous solution Weili Wang, Qi Lu, Zihan Zhuo, Wenhui Zhang, Haiwen Liu, Jiming Zhang, Jianhua Zhou, Yuzhong Niu (China), T. Guerrero (Mexico)	264
Biodegradation of Bisphenol A in a saline industrial wastewater using <i>Alcaligenes faecalis</i> strain BPAN5 A. Neisi, A.R. Rahmani, S. Ghafari, S. Jorfi, H. Almasi (Iran)	276
Improving the lead adsorption performance of mesoporous MnO_2 by plasma surface modification Haipeng Zhang, Yanju Yang, Limin Yuan, Guodong Liu, Yuhua Shan, Xiaoqing Qian, Juanjuan Wang (China)	283
Performance of heterogeneous catalytic ozonation process using Al_2O_3 nanoparticles in dexamethasone removal from aqueous solutions G. Asgari, M. Salari, H. Faraji (Iran)	296
Kinetics of Cu(II) and fulvic acid adsorption on modified biochar derived from rice husk Shuai Tang, Lujian Lin, Xuesong Wang, Anxin Feng, Xue Feng, Jing Kong (China)	305
Facile synthesis of magnetic $MnFe_2O_4$ /Mg-Al hydrotalcite composites for phosphate removal Weida Wang, Yiming Qin, Weiping Li, Tingting Zhang, Xin Chang (China)	316
Removal of copper and cadmium from simulated wastewater using coupled internal electrolysis with flocculation: a comparison of effects and investigation of mechanisms Luting Pan, Runqiu Tu, Ajun Wan, Yunpeng Wu, Xinjue Xie (China)	329
Influences of sediment characteristics and land utilization on the behavior of groundwater arsenic (As) in the Kuitun River basin Qiao Li, Hongfei Tao, M. Aihemaiti, Yanpeng Su, Hanqing Yuan, Youwei Jiang, Wenxin Yang (China)	338
Synthesis of CdS/Nd_2S_3 nanocomposite with enhanced photocatalytic performance under simulated sunlight irradiation Haihua Yang, Chaohua Dai, Lingjie Jiang, Li Zhang, Jianhui Yan (China)	349
Novel iron manganese oxide modified mulberry biochar for the adsorption of phosphorus in aqueous solution Meina Liang, Liling Yan, Dunqiu Wang, Xu Cheng, Zhenliang Deng, Shuiping Xu, Sen Li (China)	357
Nano-structured calcium silicate hydrate-based composites derived from fluosilicic acid for highly efficient Cr(III) removal and methylene blue degradation from wastewater Rui Ma, Jie Gao, Xinhua Zhu, Jun Li, Yubin Wang, Jianhong Luo (China)	367
Efficient degradation of ceftriaxone sodium using N-doped carbon xerogel anodes Qing Xin, Zhicheng Guo, Yue Zang, Jun Lin (China)	380

A promising Pd/polyaniline/foam nickel composite electrode for effectively electrocatalytic degradation of methyl orange in wastewater Tingting Zhang, Jingli Zhang, Decheng Zou, Fang Cheng, Runxi Su (China)	386
Efficient removal of toxic methylene blue (MB) dye from aqueous solution using a metal-organic framework (MOF) MIL-101(Fe): isotherms, kinetics and thermodynamic studies A.S. Eltaweil, E.M. Abd El-Monaem, A.M. Omer, R.E. Khalifa, M.M. Abd El-Latif, G.M. El-Subruiti (Egypt)	395
Optimization of the Acid blue 113 dye degradation in the three-dimensional electro persulfate process (3D/EPS) catalyzed by granular activated carbon (GAC) using the response surface methodology A. Rahmani, A. Seid-Mohammadi, M. Khazaei, S. Maroofi (Iran)	408
Application of <i>Dimorcarpus longan</i> ssp. <i>malesianus</i> leaves in the sequestration of toxic Brilliant Green dye A.A. Romzi, L.B.L. Lim, Chin Mei Chan (Brunei), N. Priyantha (Sri Lanka)	428
Preparation and characterization of cassava stem biochar for mixed reactive dyes removal from simulated effluent A. Navya, S. Nandhini (India), S. Sivamani, G. Vasu (Oman), N. Sivarajasekar (India), A. Hosseini-Bandegharai (Iran)	440
Author Index	452